05-0020

Washington State Department of Transportation
Douglas B. MacDonald
Secretary of Transportation

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March 21, 2005

Mr. Dan Mathis
Division Administrator
Federal Highway Administration
711 South Capitol Way, Suite 501
Olympia, WA 98504-1284

Attn: Meagan Hall/Michael Brower

SUBJECT: ITS Blanket Proprietary Item Approval Request

Dear Mr. Mathis,

The attached subject memorandum is to request approval to specify the listed proprietary items on projects in the Olympic Region. This is a blanket approval to cover multiple projects. Some of these projects will be Interstate New/Reconstruction and, therefore, the request requires FHWA approval.

Specifying this equipment is in the public's best interest to ensure compatibility and synchronization with existing equipment.

If you have any questions on this information feel free to contact either Rafael Reyes in the Region or myself at 705-7465.

Sincerely,

John N. Drye, P.E.
Assistant State Design Engineer

Recommended for Approval
MK Brewer 3/23/2005

APPROVED
DIVISION ADMINISTRATOR
BY Meagan P Hall DATE 3-23-05

JND:ajb

CC: Rafael Reyes

Attachment: Request for Proprietary Items, March 10, 2005

Washington State Department of Transportation

Memorandum

March 10, 2005

~~APPROVED~~

Date 3/21/05
Assistant State Designer Engineer

TO: Jay Drye
MS 47330

THRU: Steve Kim
MS: 47440

FROM: Rafael Reyes/Ben Burke
MS: 47440
(360) 357-2683 / (360) 357-2787

SUBJECT: Blanket Proprietary Item Request

The Olympic Region is requesting blanket proprietary approval for the following ITS materials from March 2005 through March 2007. The materials submitted are essential for synchronization with existing highway facilities in Olympic Region and essential for synchronization with existing implementations when Olympic and other region projects connect in the future. At this time the Department is in the process of pursing statewide standardization and inner operability between all regions in the areas of Signal, Illumination and ITS system design.

We are requesting blanket proprietary approval for the following items:

Axis Communication Web Server
Model # Axis 2401+

The Axis Web Server will host a static IP address Internet site that contains images from a fixed CCTV camera. The Olympic Region currently uses Axis web servers for fixed CCTV camera at several locations throughout the Region.

It is imperative that we maintain compatibility with our existing servers, using this system, which will also allow a smaller inventory of spare parts and response time for repairs and replacements. This will result in a cost savings and be in the best interest of the public. Installation of separate computer hardware and the purchase of new software programs would result in crowding an already limited workspace at the Traffic Management Center.

GDI Communication Multipoint Modem
Model # GDI 400SA 4 wire

The GDI Multipoint Modem will supply communications to all ramp meters and data station in region that are currently install in remote areas; requiring leased communication lines.

The Northwest Region currently uses these modems for Ramp Meters and Data Stations communicating on lease phone lines. Installation of this modem will ensure compatibility with the Northwest Region in the event that Olympic Region's Traffic Management Center loses the network connection.

SSI Roadway Weather Information System (RWIS) Equipment

Road Weather Information System is a unique system consisting of several stations strategically located alongside the highway that allow the Department to make more informed decisions during winter storms and to collect local pavement and atmospheric data. RWIS equipment will include; wind speed/direction sensor, precipitation sensor, tower, air temperature/R.H sensor, OWI sensor, OWI enclosure, and breaker box. To date there are six Surface Systems Incorporated (SSI) RWIS installed in the Olympic Region.

The RWIS system is essential for synchronization with existing implementations. This will also allow a smaller inventory of spare parts and response time for repairs and replacements. Which results in a cost savings and is in the best interest of the public.

PGI RTMS (REMOTE TRAFFIC MICROWAVE SENSOR)

The Remote Traffic Microwave Sensor (RTMS) is a sensor for the detection and measurement of traffic at intersections and roadways. This detector provides per-lane presence indication, as well as Volume, Occupancy, Vehicle Speed, Classification information. A single RTMS can replace multiple inductive loop detectors and the attendant controller. The Olympic Region currently uses PGI Solutions RTMS Systems and has installed a number of these detectors systems throughout the Region.

Installation of separate computer hardware and new software programs would result in crowding an already limited workspace at the Traffic Management Center. A separate RTMS system would require separate communication system, increasing the monthly utility cost and/or depleting the bandwidth of WSDOT owned communication system. Maintaining compatibility with our existing RTMS system will result in a smaller inventory of spare parts and response time for repairs and replacements and will be a cost savings and in the best interest of the public.

FDS SYLVIA VMS (VARIABLE MESSAGE SIGN)

The signs will be used at key locations to inform motorists of traffic information, alternate route, and delay information. The Olympic Region currently uses Fiber optic Display Systems (FDS) SYLVIA 450 and has installed a number of these signs throughout the Region.

Installation of separate computer hardware and new software programs would result in crowding an already limited workspace at the Traffic Management Center. Maintaining compatibility with our existing Fiber optic Display Systems (FDS) SYLVIA 450 system will result in a smaller inventory of spare parts and response time for repairs and replacements and will be a cost savings and in the best interest of the public.

ISS Highway Advisor Radio (HAR) Transmitter & Components

The Highway Advisory Radios are used to inform motorists of special events and conditions that may affect traffic by using radio frequencies that motorist can tune to inside their vehicle. We currently have thirteen (13) Information Station Specialists (ISS) HAR stations that are tied to the Olympic Region Traffic Center.

For synchronization with our existing HAR systems we request the use of this proprietary system. Installation of separate computer software programs would result in confusion with operation of two or more separate systems. A separate HAR system would require separate communication systems, increasing the monthly utility cost and/or depleting the bandwidth of WSDOT owned communication system. Maintaining compatibility with our existing HAR system will result in a smaller inventory of spare parts and response time for repairs and replacements and will be a cost savings and in the best interest of the public.

Lamar Video over T1 System

The Video over T1 system provided by Lamar Systems will allow remote Closed Circuit Television (CCTV) camera to transmit the video and it's Pan/Tilt/Zoom data to the Traffic Management Center (TMC) over a leased T1 phone line. This System includes Indigovision's Encoder/Decoders, Engage Communications Ethernet to T1 converter, and Lamar Systems Software.

Installation of separate computer hardware would result in crowding an already limited workspace at the Traffic Management Center. Maintaining compatibility with our existing system will result in a smaller inventory of spare parts and response time for repairs and replacements and will be a cost savings and in the best interest of the public.

The technologies used in the above items are constantly improving. As such, we are continually evaluating the needs of our system and the equipment that best serves those needs. If you have any questions or need additional information on this matter, please contact Ben Burke at 360-357-2787.

RR:es

cc: Design File